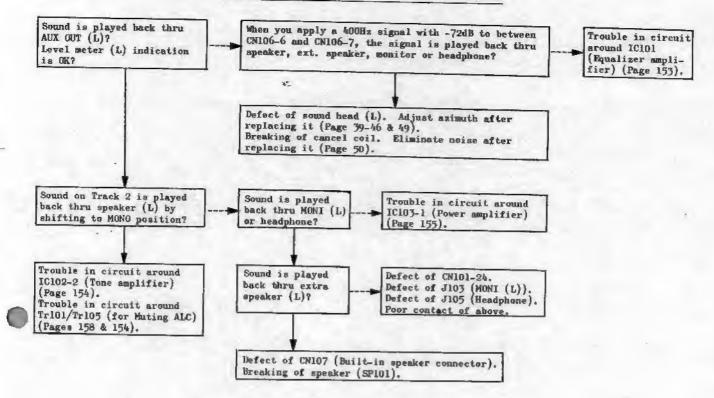
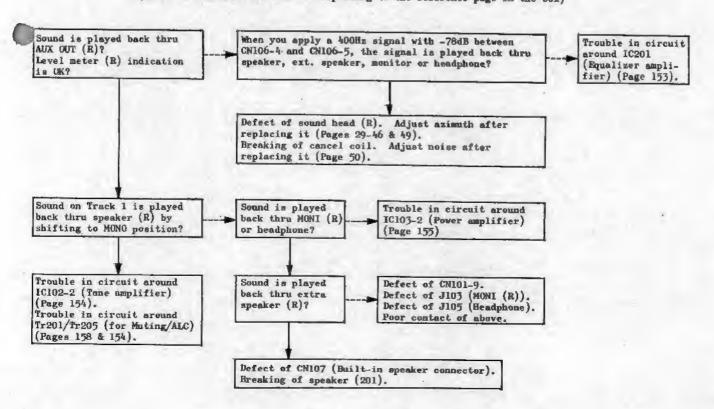
#### D. Troubleshooting

## SOUND ISN'T PLAYED BACK THUE SPEAKER OF L-CHANNEL

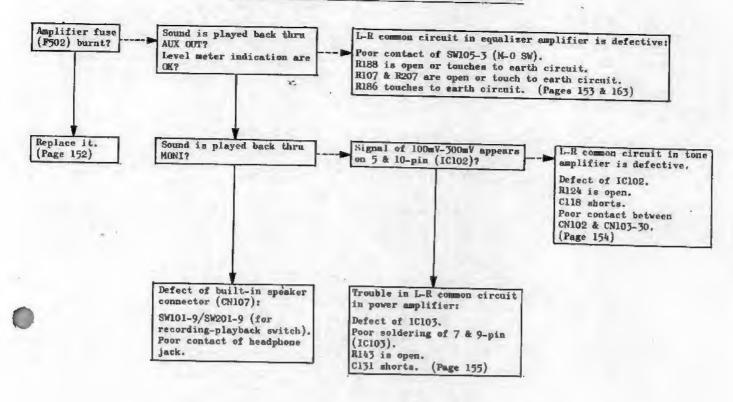


### SOUND ISN'T PLAYED BACK THRU SPEAKER OF R-CHANNEL

(Refer to R-Channel Circuit corresponding to the reference page in the box)

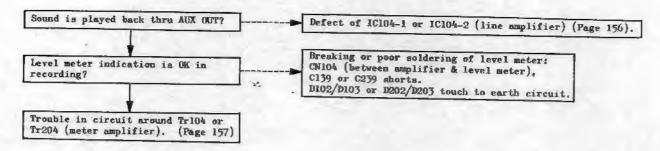


## SOUND ON BOTH TRACKS ISSUT PLAYED BACK THRU SPEAKER



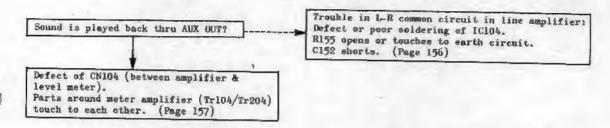
#### NOT PLAYED BACK OPTICAL SOUND Breaking of exciter lamp. Exciter lamp is Trouble in 12V power circuit: lighting? Solenoids (for pad roller and heat-proof) function properly? Breaking of fuse F504. Defect of C316 or RECT302. Spot lamp for level meter is lighting? Solenoid for head presser is at OFF position? Poor contact of CN101-1. Voltage for exciter lamp is improper: Defect of SW105-2 (M-0 SW). Defect of CN302 or circuit around IC304. Refer to the constant voltage circuit for Poor contact of CN101-3 exciter lamp in control circuit diagram. When lighting (fluorescent) to Optical amplifier is defective (Page 163). PA (Public Address) is workable? the solar battery, hoise cames out? Resistance between CN106-2 & CN106-3 Low resistance: Defect of Tr108. At Tr108 - about 0.777 CN106-2/CN106-3 is about 10Kohms? abort. Poor adjustment of Measure it after R177 shorts. R178/C162 touch exciter lamp and disconnecting High resistance: SW105-3 (M-0 SW) shorts. R188/186/185/107/207/ C171/163/106/206 touch sound lens CN106 from the Broken of CN106-2/CN106-3 to earth circuit (Page 53-56). cancel board. Breaking of shielding wire for them. to power-supply line. When you put a mignal of 400Hz with -57dBs into CN106-2 & CN106-3, the signal is played back? Breaking of R178. Defect of solar battery (Page 54). Breaking or short of cancel board/shielding wire (between solar battery and cancel board). Defect of CN106-2/CN106-3.

# LEVEL METER (L) OR (R) SHOWS NO INDICATION IN PLAYBACK (though Sound can be played back thru Speaker)



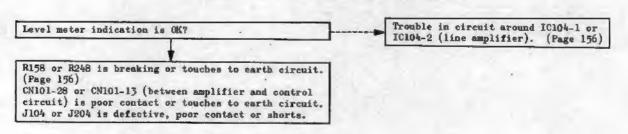
### BOTH LEVEL METERS SHOW NO INDICATION IN PLAYBACK

(though Sound can be played back thru Speaker)



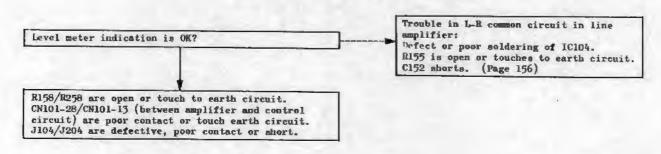
ICl04 (1/2 LA3122) of line amplifier is of composite type, so at first check the applied voltage (+20V at 8-pin) circuit when both level meter indicators do not swing.

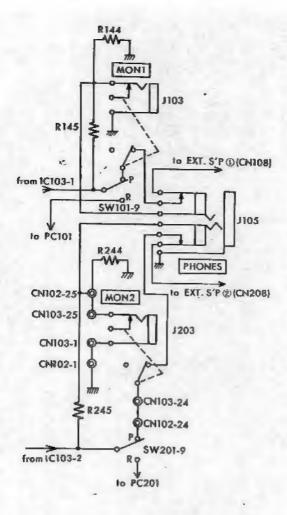
# SOUND ISN'T PLAYED BACK THRU AUX OUT (L) OR (R) (though it can be played back thru the Speaker)



## SOUND ISN'T PLAYED BACK THRU BOTH AUX OUT

(though it can be played back thru the Speaker)

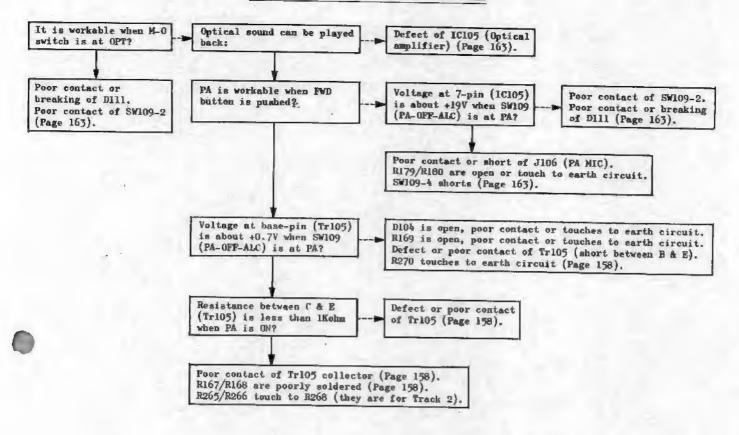




# SOUND ISN'T PLAYED BACK THRU MONITOR (L) OR (R) (though it can be played back thru Built-in Speaker)

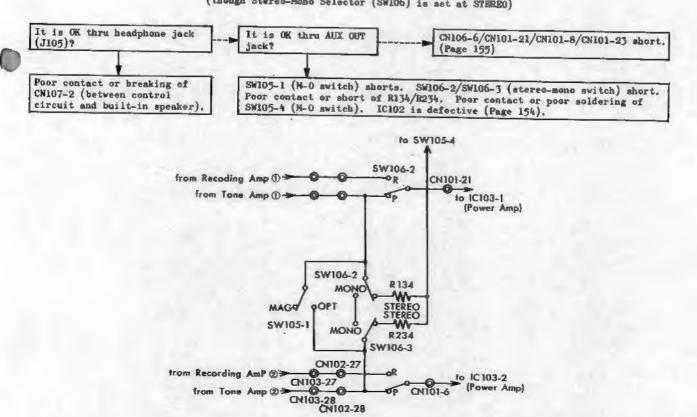
Sound is played back thru headphone jack? Trouble in Track 1 (L): R144 shorts or touches to earth circuit. R145 is open or touches to earth circuit. Defect or short of J103/J105. Trouble in Track 1 (L): Trouble in Track 2 (R): Defect or poor soldering of J103. R244 shorts or touches to earth circuit.
R245 is open or touches to earth circuit.
Defect or short of J203/J105. Trouble in Track 2 (R): Defect or poor soldering of J203. Poor contact of CN102-25/CN103-25/ CN102-25/CN103-25 touch to earth circuit. CN102-1/CN103-1. SOUND ISN'T PLAYED BACK THRU HEADPHONE JACK SOUND ISN'T PLAYED BACK THRU EXTRA SPEAKER (It is UK thru Speaker) (It is OK thru Built-in Speaker) Poor contact or defect of J105 (Headphone Jack) Track 1: Poor contact or defect of CN108. Track 2: Poor contact or defect of CN208.

### PA (PUBLIC ADDRESS) SYSTEM ISN'T WORKABLE

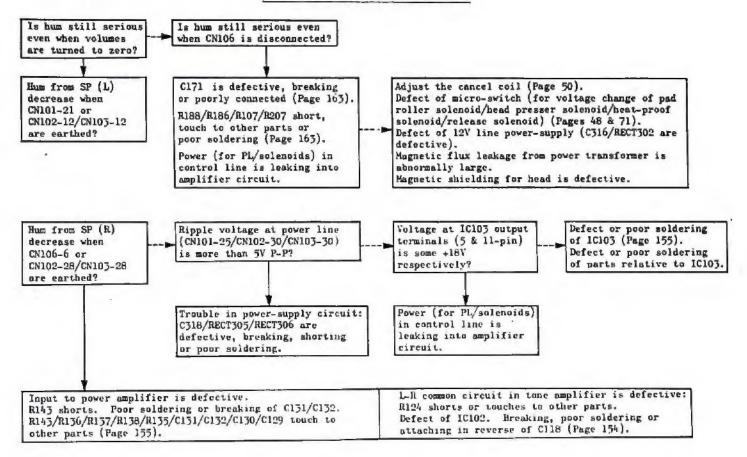


## SOUND ISN'T PLAYED BACK IN STEREO

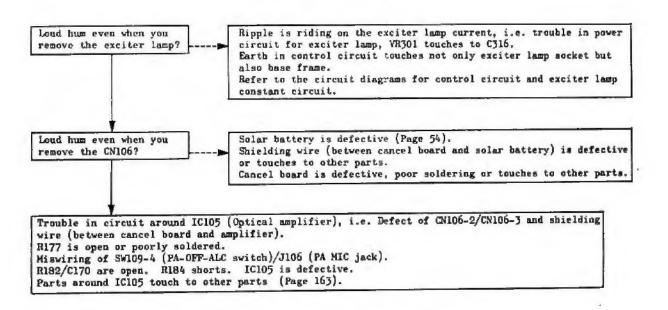
(though Steres-Mono Selector (SW106) is set at STEREO)



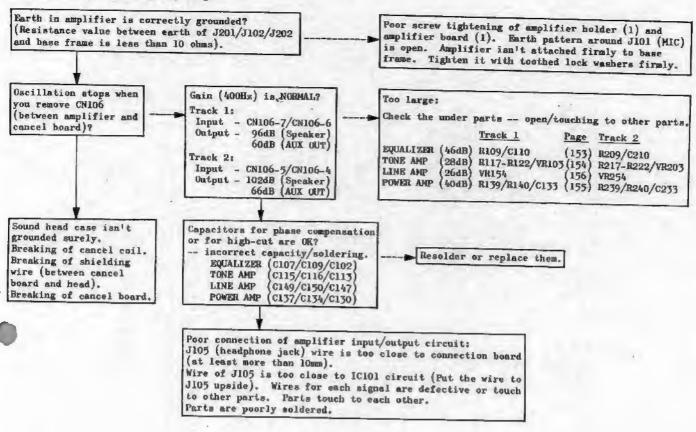
#### LOUD HUM IS HEARD THRU BOTH SPEAKERS



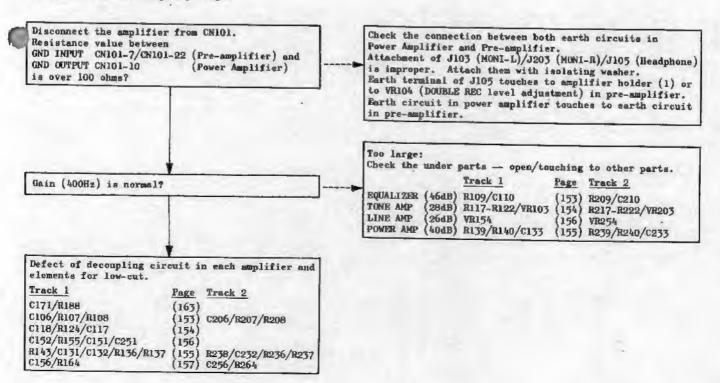
#### LOUD HUM DURING OPTICAL PLAYBACK

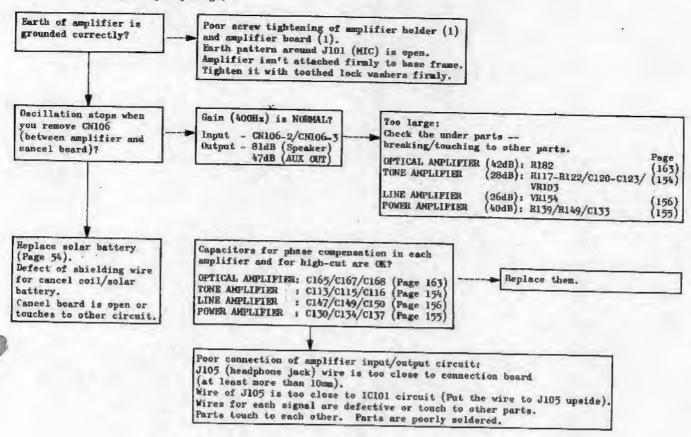


## Oscillation at high frequency range:

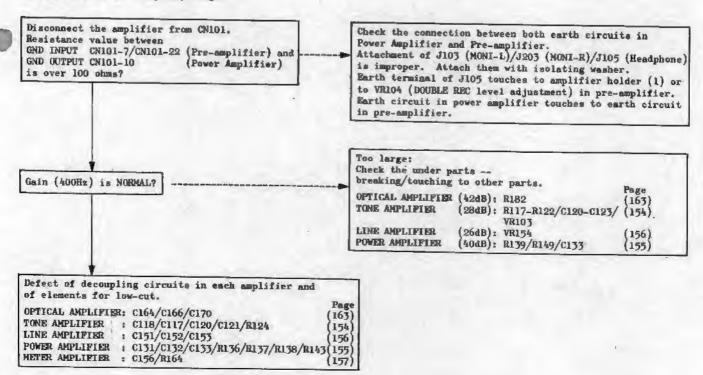


## Oscillation at low frequency range:

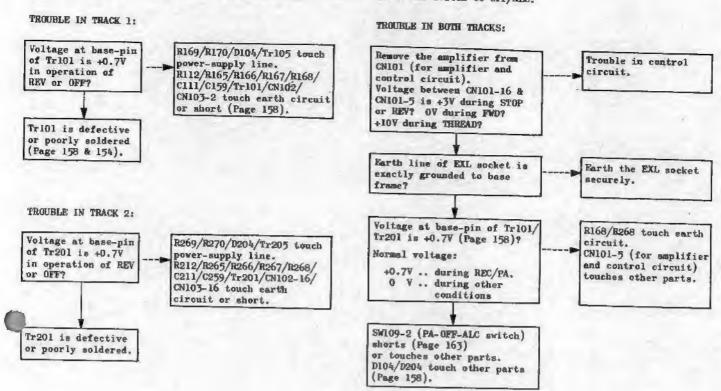




#### Oscillation at low frequency range:

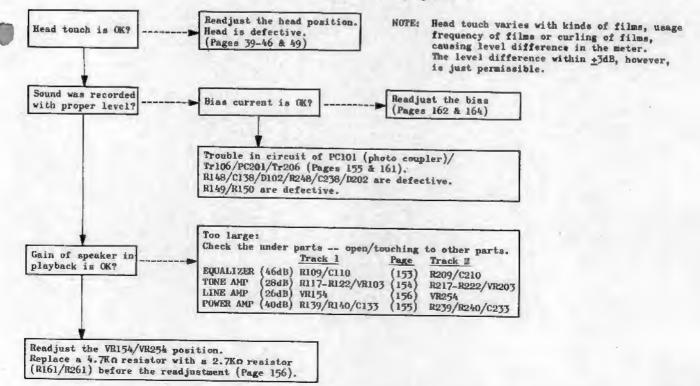


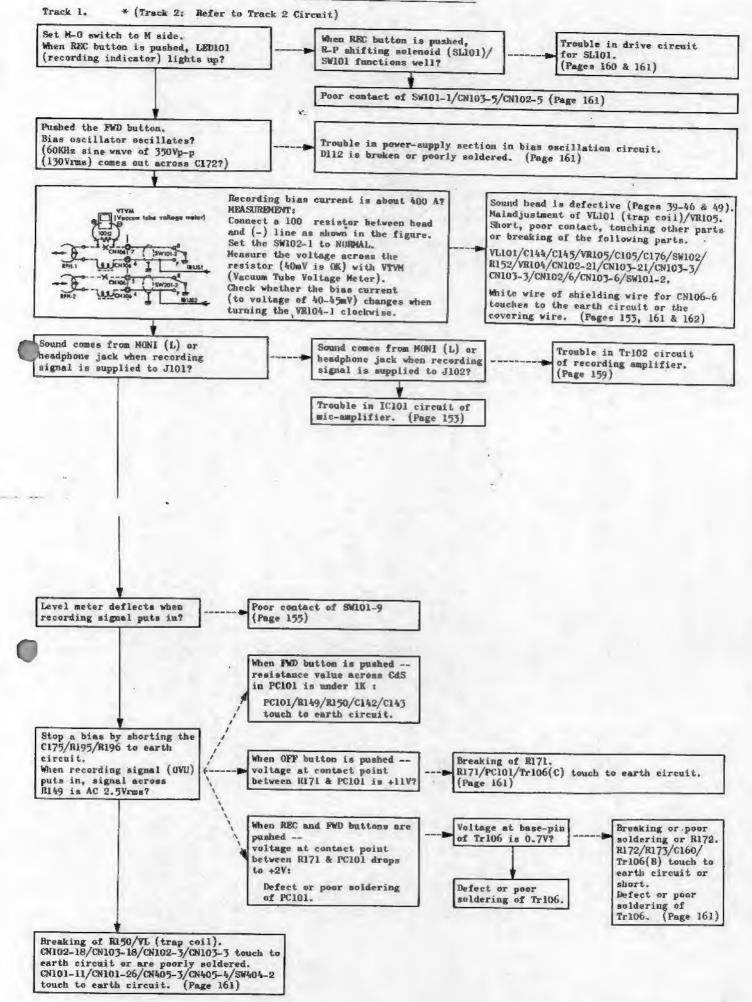
SW109 (PA-OFF-ALC Switch) is at correct position? ------ Shift the switch to OFF/ALC.

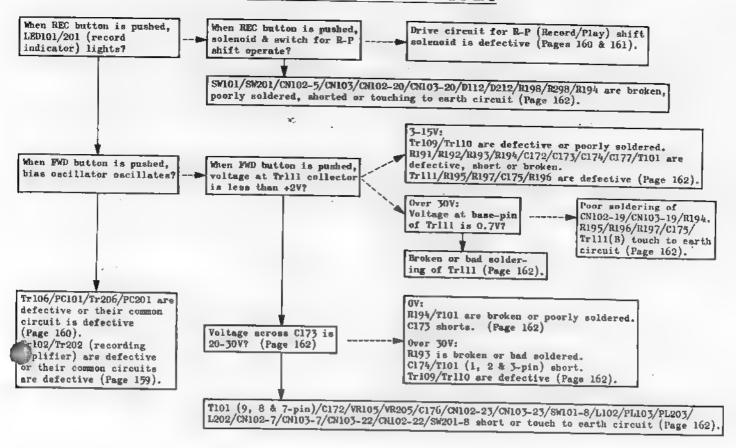


## DIFFERENCE (OVER +34B) OF LEVEL METER INDICATIONS

- on Recording & on Playing Back -

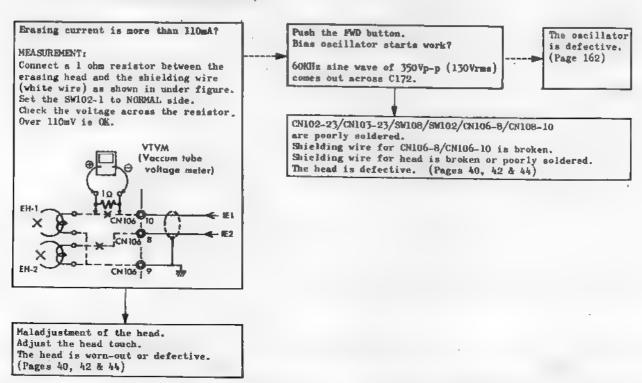






### UNABLE TO ERASE SOUND ON TRACK 1

#### \* (Track 2: Refer to the Track 2 Circuit)



## NORMAL RECORDING IS IMPOSSIBLE

(DOUBLE Recording is OK)

#### Trouble in Track 1:

SW102-3 touches to other circuits.
Erasing head shorts (Pages 40, 42 & 44).
Cancel board/CN106-10/CN106-8 short.
Shielding wire (between amplifier and cancel board/CN106-10/CN106-9/CN106-8) shorts or touches to the earth circuit.
Shielding wire (between erase head and cancel board) shorts or touches to the earth circuit.

#### Trouble in Track 2:

Check the similar points to the above, referring to the Track 2 Circuit.

#### ALC IS IMPOSSIBLE

#### Trouble in Track 1:

Refer to Page 139.

Refer to Page 139.

R146/R166/D101 are broken or touching to other parts.
R147/C140/C141 short or touch to other parts.
SW109-3 is poorly soldered. (Pages 155 & 158)

#### Trouble in Track 2:

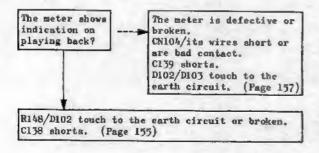
Check the similar points to the above, referring to the Track 2 Circuit.

## Trouble in both Tracks 1 & 2:

C141/C241/D101/D201 short or touch to the earth circuit.
SW106 touches to other circuits.
SW109-3/SW109-1 touch to other circuits.
(Pages 155 & 158)

## LEVEL METER DOES NOT WORK ON RECORDING (Recording is OK)

#### Trouble in Track 1:



#### Trouble in Track 2:

Check the similar points to the above, referring to the Track 2 Circuit.

## OUBLE RECORDING IS IMPOSSIBLE (NORMAL Recording is UK)

#### Trouble in Track 1:

SW102/CN102-21/CN103-21/C176 touch to the earth circuit.

VR104-1 is bad soldering or touches to other parts.

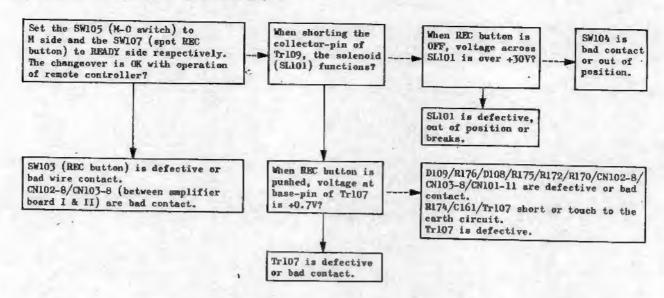
Bad contact of amplifier board I and VR104-1,

L102/SW102-2/SW108 short or touch to the earth circuit. (Page 162)

#### Trouble in Track 2:

Check the similar points to the above, referring to the Track 2 Circuit.

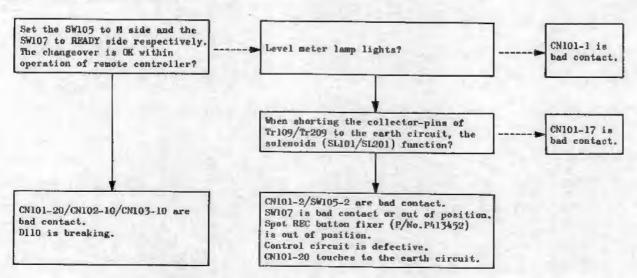
## Trouble in Track 1: (Refer to Pages 160 & 161)



#### Trouble in Track 2:

Check the similar points to the above, referring to the Track 2 Circuit.

#### Trouble in both Tracks 1 & 2:



## HOLDING (R-P SOLENOID) IS IMPOSSIBLE

Trouble in Track I:

SW101-7 is broken or bad contact. D107 is breaking. (Pages 160 & 161)

Trouble in Track 2:

Check the similar points to the above, referring to the Track 2 Circuit.

Trouble in both Tracks I & 2:

SW108/D107/D207/SW101-7/SW201-7/R171/R271/R197/CN102-19/CN103-7 touch to the other parts. CN101-19 is bad contact or touches to the other parts. Control circuit (periphery of Tr316/Tr319) is defective.

## R-P SOLENOID VIBRATES WHEN REC BUTTON (SW103) IS POSHED

Trouble in Track I:

D105 is defective, breaking or bad contact. Tr107/R107 are bad contact. SL101 is bad contact or out of position. SW104 is out of position. (Pages 160 & 161)

Trouble in Track 2:

Check the similar points to the above, referring to the Track I Circuit.

SPOT RECORDING IS IMPOSSIBLE (NORMAL / DOUBLE Recordings are OK)

Trouble in both Tracks 1 & 2:

SW108 is defective, bad contact or out of position. (Pages 160 & 161)

## RECORDING STATE IS KEPT ON EVEN WHEN OFF BUTTON IS PUSHED

Trouble in Track 1:

SW108 (SPOT REC switch) shorts or out of position. CN101-19/CN101-20/Remote connector short. Wires of D110/SW108 touch to other parts. Control circuit (periphery of Tr316-Tr319) is defective. D107/R171/SW101-7 (R-P switch) touch to the other circuits. (Pages 160 & 161)

Trouble in Track 2:

Check the similar points to the above, referring the Track 2 Circuit.

CHANGEOVER FROM SPOT REC TO FWD PROJECTION IS IMPOSSIBLE EVEN BY TURNING SPOT REC BUTTON TO OFF POSITION

(It is possible by operation of OFF button)

Trouble in Track 1:

SW107 (READY-OFF switch) shorts.
CN101 touches to the other parts.
Wiring of remote connector is bad.
Control circuit (periphery of Tr316-Tr319) is
defective.
B107/R171/SW101-7 touch to the other circuits.
[Pages 160 & 161]

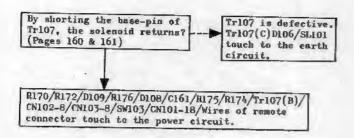
Trouble in Track 2:

Check the similar points to the above, referring to the Track 2 Circuit.

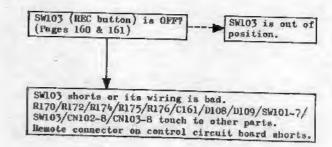
## R-P SOLENOID WORKS AS SOON AS POWER SWITCH TURNS ON

## R-P SOLENOID WORKS AS SOON AS SM107 IS SET TO "READY" OR SW105 IS SET TO "M" POSITION

#### Trouble in Track 1:



Trouble in Track 1:



Trouble in Track 2:

Check the similar points to the above, referring to the Track I Circuit.

Trouble in Track 2:

Check the similar points to the above, referring to the Track 2 Circuit.

### AMPLIFIER FUSE (F502) BURNS OUT

